

IN THE CLAIMS:

Please cancel without prejudice claims 1-7 and add new claims 8-73, as indicated in the complete listing of claims provided below.

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1-7. (canceled)

8. (new) A method implemented on a server to serve documents to a remote device, the method comprising:

receiving at the server from the remote device a request for a document, the document including a first portion containing displayable text in a non-image format;

rendering, at the server, the first portion of the document containing the displayable text as a first image segment of an image of the entire document in response to the request;

transmitting the first image segment in a compressed image format from the server to the remote device for display;

automatically rendering, at the server, a second portion of the document as a second image segment of the image of the entire document, the second portion being outside a display area of the remote device available for displaying the document when the first image segment is displayed on the remote device;

and

automatically transmitting the second image segment from the server to the remote device.

9. (new) The method of claim 8, wherein the first portion of the document is rendered as the first image segment in a window of a browser on the server; the second portion of the document is automatically scrolled into the window of the browser to render the second portion of the document as the second image segment.

10. (new) The method of claim 9, wherein the second portion of the document is automatically scrolled into the window of the browser while the first image segment is being transmitted from the server to the remote device.
11. (new) The method of claim 9, wherein the second portion of the document is automatically scrolled into the window of the browser after the first image segment is transmitted from the server to the remote device.
12. (new) The method of claim 9, wherein a size of the window of the browser is substantially equal to a size of the display area of the remote device for the document.
13. (new) The method of claim 9, wherein a size of the first image segment is slightly larger than a size of the display area of the remote device available for displaying the document.
14. (new) The method of claim 8, further comprising:  
receiving, at the server from the remote device, a message to indicate the remote device scrolling to a third portion of the document for display;  
determining, at the server, whether or not a third image segment of the entire document, rendered from the third portion of the document, has been sent to the remote device;  
transmitting the third image segment in a compressed image format from the server to the remote device for display in response to a determination that the third image segment has not been sent to the remote device.

15. (new) The method of claim 8, wherein all image segments of the image of the entire document are rendered at the server and transmitted to the remote device in response to the request.
16. (new) The method of claim 15, wherein the image segments of the image of the entire document comprise:  
first image segments, rendered from text portions of the document; and  
second image segments, rendered from graphics portions of the document;  
wherein the first and second image segments are outside the display area of the remote device available for displaying the document when the first image segment is displayed on the remote device; and  
wherein the first image segments have a higher priority than the second image segments in transmission from the server to the remote device.
17. (new) The method of claim 8, wherein the first image segment is transmitted from the server to the remote device in a first image format; and, the second image segment is transmitted from the server to the remote device in a second image format.
18. (new) The method of claim 17, wherein the first image format is lossless and the second image format is lossy.
19. (new) The method of claim 17, wherein a color depth of the first image segment is smaller than a color depth of the second image segment.

20. (new) The method of claim 19, wherein the second portion of the document comprises graphics; and the second portion overlaps at least in part with the first portion.
21. (new) The method of claim 8, further comprising:  
receiving, at the server from the remote device, a user input directed by a user at the remote device to the document;  
retrieving information from a database according to the user input; and  
applying at the server the information to the document as input to the document to retrieve a response.
- A12 22. (new) The method of claim 8, further comprising:  
receiving, at the server from the remote device, a user input directed by a user at the remote device to the document to drag an object;  
applying at the server the user input to drag to the document to render a refreshed image segment of the document; and  
transmitting the refreshed image segment of the document from the server to the remote device.
23. (new) A method implemented on a server to serve documents to a remote device, the method comprising:  
receiving at the server from the remote device a request for a document, the document containing displayable text in a non-image format;

rendering, at the server, at least a portion of the document containing the displayable text as a first image segment of an image of the entire document in response to the request, the first image segment being larger than a display area of the remote device available for displaying the document;  
transmitting the first image segment in a compressed image format from the server to the remote device for display;  
receiving, at the server from the remote device, a user input directed by a user at the remote device to the document;  
retrieving information from a database according to the user input; and  
applying at the server the information to the document as input to the document to retrieve a response.

- A12
24. (new) The method of claim 23, wherein the portion of the document is rendered in a browser at the server; when the information is applied to the document, the browser sends data including the information to a source remote to the server to retrieve a response.
25. (new) The method of claim 24, wherein the data is encrypted when sent from the server to the source.
26. (new) The method of claim 25, wherein the data comprises credit card information.
27. (new) The method of claim 23, wherein all image segments of the image of the entire document are rendered at the server and transmitted to the remote device in response to the request.

28. (new) A method implemented on a server to serve documents to a remote device, the method comprising:
- receiving at the server from the remote device a request for a document, the document containing displayable text in a non-image format;
- rendering, at the server, at least a portion of the document containing the displayable text as a first image segment of an image of the entire document in response to the request, the first image segment being larger than a display area of the remote device available for displaying the document;
- transmitting the first image segment in a compressed image format from the server to the remote device for display;
- receiving, at the server from the remote device, a user input directed by the user at the remote device to the document to drag an object;
- applying, at the server, the user input to the document;
- rendering a refreshed image segment of the document; and
- transmitting the refreshed image segment of the document from the server to the remote device.
29. (new) The method of claim 28, wherein all image segments of the image of the entire document are rendered at the server and transmitted to the remote device in response to the request.
30. (new) A machine readable medium containing executable computer program instructions which when executed by a data processing system cause said system to

A12

perform a method implemented on a server to serve documents to a remote device,  
the method comprising:

receiving at the server from the remote device a request for a document, the document

including a first portion containing displayable text in a non-image format;

rendering, at the server, the first portion of the document containing the displayable  
text as a first image segment of an image of the entire document in response to  
the request;

transmitting the first image segment in a compressed image format from the server to  
the remote device for display;

automatically rendering, at the server, a second portion of the document as a second  
image segment of the image of the entire document, the second portion being  
outside a display area of the remote device available for displaying the  
document when the first image segment is displayed on the remote device;  
and

automatically transmitting the second image segment from the server to the remote  
device.

A12

31. (new) The medium of claim 30, wherein the first portion of the document is rendered as the first image segment in a window of a browser on the server; the second portion of the document is automatically scrolled into the window of the browser to render the second portion of the document as the second image segment.
32. (new) The medium of claim 31, wherein the second portion of the document is automatically scrolled into the window of the browser while the first image segment is being transmitted from the server to the remote device.

33. (new) The medium of claim 31, wherein the second portion of the document is automatically scrolled into the window of the browser after the first image segment is transmitted from the server to the remote device.
34. (new) The medium of claim 31, wherein a size of the window of the browser is substantially equal to a size of the display area of the remote device for the document.
35. (new) The medium of claim 31, wherein a size of the first image segment is slightly larger than a size of the display area of the remote device available for displaying the document.
36. (new) The medium of claim 30, wherein the method further comprises:  
receiving, at the server from the remote device, a message to indicate the remote  
device scrolling to a third portion of the document for display;  
determining, at the server, whether or not a third image segment of the entire  
document, rendered from the third portion of the document, has been sent to  
the remote device;  
transmitting the third image segment in a compressed image format from the server to  
the remote device for display in response to a determination that the third  
image segment has not been sent to the remote device.
37. (new) The medium of claim 30, wherein all image segments of the image of the entire document are rendered at the server and transmitted to the remote device in response to the request.



38. (new) The medium of claim 37, wherein the image segments of the image of the entire document comprise:  
first image segments, rendered from text portions of the document; and  
second image segments, rendered from graphics portions of the document;  
wherein the first and second image segments are outside the display area of the remote device available for displaying the document when the first image segment is displayed on the remote device; and  
wherein the first image segments have a higher priority than the second image segments in transmission from the server to the remote device.
39. (new) The medium of claim 30, wherein the first image segment is transmitted from the server to the remote device in a first image format; and, the second image segment is transmitted from the server to the remote device in a second image format.
40. (new) The medium of claim 39, wherein the first image format is lossless and the second image format is lossy.
41. (new) The medium of claim 39, wherein a color depth of the first image segment is smaller than a color depth of the second image segment.
42. (new) The medium of claim 41, wherein the second portion of the document comprises graphics; and the second portion overlaps at least in part with the first portion.

43. (new) The medium of claim 30, wherein the method further comprises:  
receiving, at the server from the remote device, a user input directed by a user at the  
remote device to the document;  
retrieving information from a database according to the user input; and  
applying at the server the information to the document as input to the document to  
retrieve a response.

44. (new) The medium of claim 30, wherein the method further comprises:  
receiving, at the server from the remote device, a user input directed by a user at the  
remote device to the document to drag an object;  
applying at the server the user input to drag to the document to render a refreshed  
image segment of the document; and  
transmitting the refreshed image segment of the document from the server to the  
remote device.

45. (new) A machine readable medium containing executable computer program  
instructions which when executed by a data processing system cause said system to  
perform a method implemented on a server to serve documents to a remote device,  
the method comprising:  
receiving at the server from the remote device a request for a document, the document  
containing displayable text in a non-image format;  
rendering, at the server, at least a portion of the document containing the displayable  
text as a first image segment of an image of the entire document in response to

the request, the first image segment being larger than a display area of the remote device available for displaying the document;  
transmitting the first image segment in a compressed image format from the server to the remote device for display;  
receiving, at the server from the remote device, a user input directed by a user at the remote device to the document;  
retrieving information from a database according to the user input; and  
applying at the server the information to the document as input to the document to retrieve a response.

- A12
46. (new) The medium of claim 45, wherein the portion of the document is rendered in a browser at the server; when the information is applied to the document, the browser sends data including the information to a source remote to the server to retrieve a response.
47. (new) The medium of claim 46, wherein the data is encrypted when sent from the server to the source.
48. (new) The medium of claim 47, wherein the data comprises credit card information.
49. (new) The medium of claim 45, wherein all image segments of the image of the entire document are rendered at the server and transmitted to the remote device in response to the request.

50. (new) A machine readable medium containing executable computer program instructions which when executed by a data processing system cause said system to perform a method implemented on a server to serve documents to a remote device, the method comprising:

receiving at the server from the remote device a request for a document, the document containing displayable text in a non-image format;

rendering, at the server, at least a portion of the document containing the displayable text as a first image segment of an image of the entire document in response to the request, the first image segment being larger than a display area of the remote device available for displaying the document;

transmitting the first image segment in a compressed image format from the server to the remote device for display;

receiving, at the server from the remote device, a user input directed by the user at the remote device to the document to drag an object;

applying, at the server, the user input to the document;

rendering a refreshed image segment of the document; and

transmitting the refreshed image segment of the document from the server to the remote device.

A12

51. (new) The medium of claim 50, wherein all image segments of the image of the entire document are rendered at the server and transmitted to the remote device in response to the request.

52. (new) A server to serve documents to a remote device, the server comprising:

means for receiving at the server from the remote device a request for a document, the document including a first portion containing displayable text in a non-image format;

means for rendering, at the server, the first portion of the document containing the displayable text as a first image segment of an image of the entire document in response to the request;

means for transmitting the first image segment in a compressed image format from the server to the remote device for display;

means for automatically rendering, at the server, a second portion of the document as a second image segment of the image of the entire document, the second portion being outside a display area of the remote device available for displaying the document when the first image segment is displayed on the remote device; and

means for automatically transmitting the second image segment from the server to the remote device.

A12

53. (new) The server of claim 52, wherein the first portion of the document is rendered as the first image segment in a window of a browser on the server; the second portion of the document is automatically scrolled into the window of the browser to render the second portion of the document as the second image segment.

54. (new) The server of claim 53, wherein the second portion of the document is automatically scrolled into the window of the browser while the first image segment is being transmitted from the server to the remote device.

55. (new) The server of claim 53, wherein the second portion of the document is automatically scrolled into the window of the browser after the first image segment is transmitted from the server to the remote device.
56. (new) The server of claim 53, wherein a size of the window of the browser is substantially equal to a size of the display area of the remote device for the document.
57. (new) The server of claim 53, wherein a size of the first image segment is slightly larger than a size of the display area of the remote device available for displaying the document.
58. (new) The server of claim 52, further comprising:  
AP means for receiving, at the server from the remote device, a message to indicate the remote device scrolling to a third portion of the document for display;  
means for determining, at the server, whether or not a third image segment of the entire document, rendered from the third portion of the document, has been sent to the remote device;  
means for transmitting the third image segment in a compressed image format from the server to the remote device for display in response to a determination that the third image segment has not been sent to the remote device.
59. (new) The server of claim 52, wherein all image segments of the image of the entire document are rendered at the server and transmitted to the remote device in response to the request.

60. (new) The server of claim 59, wherein the image segments of the image of the entire document comprise:

first image segments, rendered from text portions of the document; and

second image segments, rendered from graphics portions of the document;

wherein the first and second image segments are outside the display area of the remote device available for displaying the document when the first image segment is displayed on the remote device; and

wherein the first image segments have a higher priority than the second image segments in transmission from the server to the remote device.

61. (new) The server of claim 52, wherein the first image segment is transmitted from the server to the remote device in a first image format; and, the second image segment is transmitted from the server to the remote device in a second image format.

62. (new) The server of claim 61, wherein the first image format is lossless and the second image format is lossy.

63. (new) The server of claim 61, wherein a color depth of the first image segment is smaller than a color depth of the second image segment.

64. (new) The server of claim 63, wherein the second portion of the document comprises graphics; and the second portion overlaps at least in part with the first portion.

65. (new) The server of claim 52, further comprising:

means for receiving, at the server from the remote device, a user input directed by a user at the remote device to the document;  
means for retrieving information from a database according to the user input; and  
means for applying at the server the information to the document as input to the document to retrieve a response.

66. (new) The server of claim 52, further comprising:

means for receiving, at the server from the remote device, a user input directed by a user at the remote device to the document to drag an object;  
means for applying at the server the user input to drag to the document to render a refreshed image segment of the document; and  
means for transmitting the refreshed image segment of the document from the server to the remote device.

A12

67. (new) A server to serve documents to a remote device, the server comprising:

means for receiving at the server from the remote device a request for a document, the document containing displayable text in a non-image format;  
means for rendering, at the server, at least a portion of the document containing the displayable text as a first image segment of an image of the entire document in response to the request, the first image segment being larger than a display area of the remote device available for displaying the document;  
means for transmitting the first image segment in a compressed image format from the server to the remote device for display;  
means for receiving, at the server from the remote device, a user input directed by a user at the remote device to the document;



means for retrieving information from a database according to the user input; and  
means for applying at the server the information to the document as input to the  
document to retrieve a response.

68. (new) The server of claim 67, wherein the portion of the document is rendered in a browser at the server; when the information is applied to the document, the browser sends data including the information to a source remote to the server to retrieve a response.
69. (new) The server of claim 68, wherein the data is encrypted when sent from the server to the source.
70. (new) The server of claim 69, wherein the data comprises credit card information.
71. (new) The server of claim 67, wherein all image segments of the image of the entire document are rendered at the server and transmitted to the remote device in response to the request.
72. (new) A server to serve documents to a remote device, the server comprising:  
means for receiving at the server from the remote device a request for a document, the  
document containing displayable text in a non-image format;  
means for rendering, at the server, at least a portion of the document containing the  
displayable text as a first image segment of an image of the entire document in  
response to the request, the first image segment being larger than a display  
area of the remote device available for displaying the document;

means for transmitting the first image segment in a compressed image format from  
the server to the remote device for display;

means for receiving, at the server from the remote device, a user input directed by the  
user at the remote device to the document to drag an object;

means for applying, at the server, the user input to the document;

means for rendering a refreshed image segment of the document; and

means for transmitting the refreshed image segment of the document from the server  
to the remote device.

A12

73. (new) The server of claim 72, wherein all image segments of the image of the entire document are rendered at the server and transmitted to the remote device in response to the request.
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